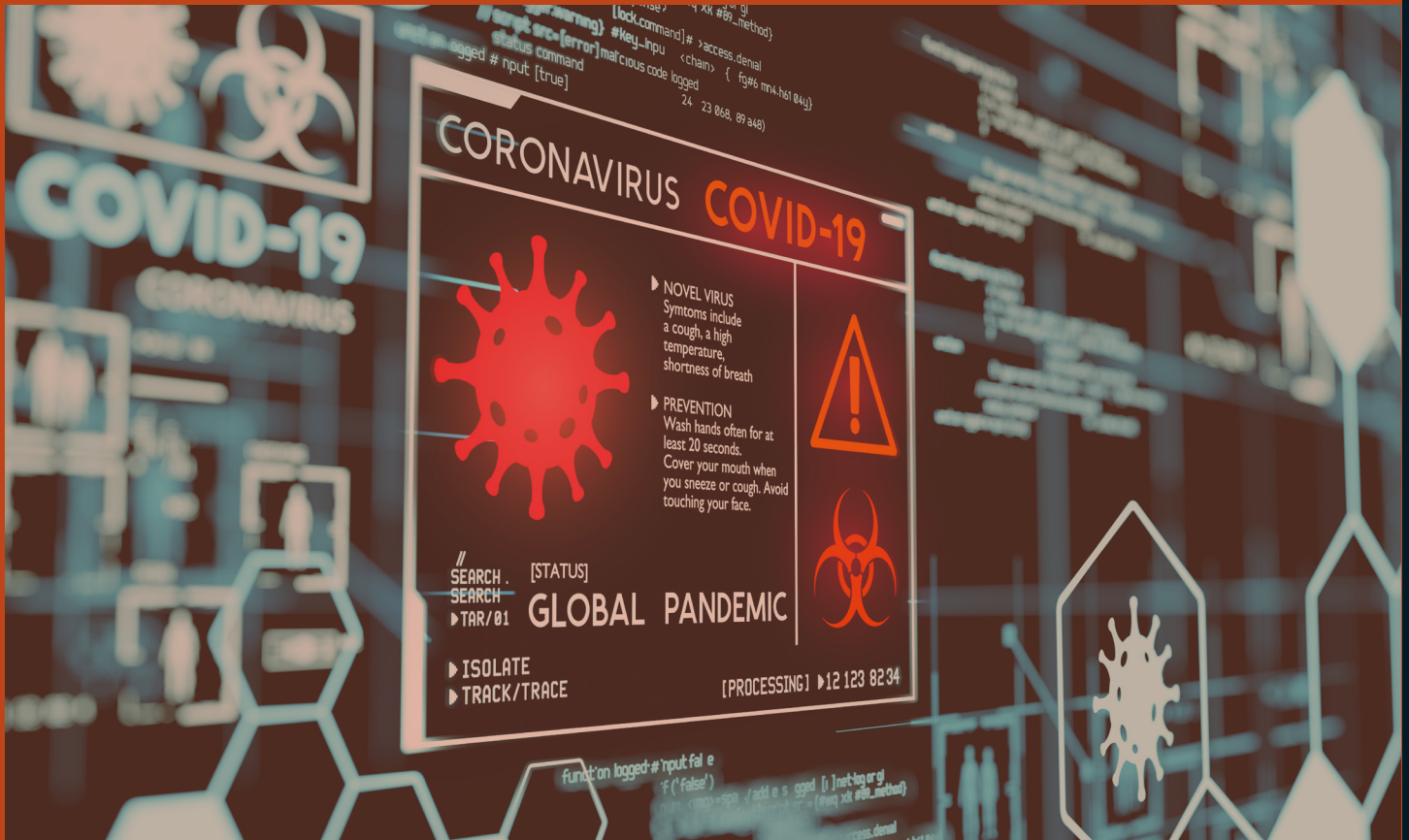


TESTING OUR PUBLIC HEALTH RESPONSE



***District Health
Department #10***
Healthy People, Healthy Communities

2020 ANNUAL REPORT

A Message to You

On behalf of District Health Department #10, we are pleased to present to you our 2020 Annual Report.

This year's theme, "Testing Our Public Health Response", speaks to the overwhelming determination and steadfastness of our staff during one of the biggest public health crises in many decades. Over the past year, we have witnessed an unprecedented level of effort, not only in addressing the COVID-19 pandemic, but also in carrying out our normal public health functions focused on keeping our communities safe and healthy. While at times these efforts have tested the resolve of local public health, they also provided the opportunity for us to demonstrate our commitment to keeping our communities safe and serving in the role of Chief Health Strategist.

Throughout the pandemic, our stakeholders, community leaders, and residents have looked to District Health Department #10 for guidance and direction in navigating the uncertainty associated with COVID-19. Moving forward, we anticipate that the pandemic challenges will continue, as will the challenges of getting back to providing our regular public health services and programs. Despite the significant time and resources dedicated to addressing COVID-19, District Health Department #10 also achieved many successes in other programming and service areas. We are proud to share these with you as part of this report.

Please be assured that the entire staff of District Health Department #10 remains committed and focused on keeping our communities and residents safe and healthy no matter what obstacles the future may bring.

To your health!



*Kevin Hughes, M.A.
Health Officer*



*Jennifer Morse, MD, MPH, FAAFP
Medical Director*

Our Leadership

Health Officer

Kevin Hughes, MA

Medical Director

Jennifer Morse, MD, MPH, FAAFP

Deputy Health Officer

Sarah Oleniczak, MPH, MCHES®

Administrative Services Director

Christine Lopez, MBA

Community Health Director

Sarah Oleniczak, MPH, MCHES®

Environmental Health Director

Tom Reichard, MPA, RS

Family Health Director, WIC

Anne Bianchi, MS, RD

Family Health Director, Home Visiting & Clinical

Anne Young, BSN, MA

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Kalkaska

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James Sweet

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Newaygo

Bryan Kolk
Jim Maike, Chair

Oceana

Martha Meyett
Denny Powers

Wexford

Judy Nichols
Gary Taylor

About Us

District Health Department #10 was formed October 1, 1997, through the consolidation of four health departments into one organization. DHD#10 is the largest geographical health department in Michigan and is the tenth largest based upon population.

We serve 10 counties in northern and west Michigan, including: **Crawford, Kalkaska, Lake, Manistee, Mason, Mecosta, Missaukee, Oceana, Newaygo, and Wexford.**

Our Mission

To promote and enhance the health of our communities and environment through protection, prevention, and intervention

Our Vision

Healthy People,
Healthy Communities

Our Values

Integrity
Responsibility
Accountability
Customer Service
Positive Attitude
Communication

Counties Served

10

Square Miles

5,796

Population Served

264,367

Total Employees

196

New: 22 • Full Time: 153 •
Part Time: 36 • Temporary: 7

6 Functions of Public Health Governance

1

Policy Development

Lead and contribute to the development of policies that protect, promote, and improve public health while ensuring the agency remains consistent with the laws and rules to which it is subject.

2

Resource Stewardship

Assure the availability of adequate resources (legal, financial, human, technological, and material) to perform essential public health services.

3

Legal Authority

Exercise legal authority as applicable by law and understand the roles, responsibilities, obligations, and functions of the governing body, health officer, and agency staff.

4

Partner Engagement

Build and strengthen community partnerships through education and engagement to ensure the collaboration of all relevant stakeholders in promoting and protecting the community's health.

5

Continuous Improvement

Routinely evaluate, monitor, and set measurable outcomes for improving community health status and the public health agency's/governing body's own ability to meet its responsibilities.

6

Oversight

Assume ultimate responsibility for public health performance in the community by providing necessary leadership and guidance in order to support the public health agency in achieving measurable outcomes.

10 Essential Public Health Services

- 1 Monitor health status to identify community health problems
- 2 Diagnose and investigate health problems and health hazards in the community
- 3 Inform, educate, and empower people about health issues
- 4 Mobilize community partnerships to identify and solve health problems
- 5 Develop policies and plans that support individual and community health efforts
- 6 Enforce laws and regulations that protect health and ensure safety
- 7 Link people to needed personal health services and assure the provision of health care when otherwise unavailable
- 8 Assure a competent public health and personal health care workforce
- 9 Evaluate effectiveness, accessibility, and quality of personal and population-based health services
- 10 Research for new insights and innovative solutions to health problems

Our Response to COVID-19

COVID-19, a global pandemic, roared in and consumed the everyday operations of District Health Department #10 in 2020. Of course, we have trained for various public health crises as part of our Emergency Preparedness plan; however even our training didn't fully prepare us for the challenges, obstacles, and hardships we would face. While we learned as we went, made quick decisions, and adapted to the rapidly-evolving changes this pandemic brought, we established a solid Incident Command structure to guide us and utilized the skills and dedication of our amazing staff to accomplish the enormous task of managing this crisis in order to protect the health of our citizens.

Staff Reassigned to COVID

95%

also added 8 temporary staff

Employee Overtime

7,100.25
hours

% Overtime Increase

122%
over 2019

Core COVID-19 Contact Tracing Team

70



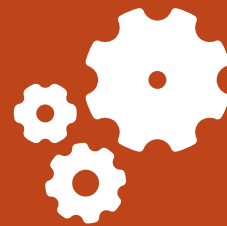
STRENGTHENED PARTNERSHIPS

COVID-19 brought us closer to our community partners and stakeholders in many aspects. DHD#10 collaborated with the hospital systems primary care providers to provide guidance and education. We partnered with the Michigan National Guard and numerous offsite businesses, churches and schools to host testing events. We also partnered with several agricultural farms and food processing plants to provide testing and education at their facilities. We hosted weekly virtual calls with the community, as well as weekly calls with schools to provide updates and guidance on COVID-19.



INCREASED COMMUNICATIONS

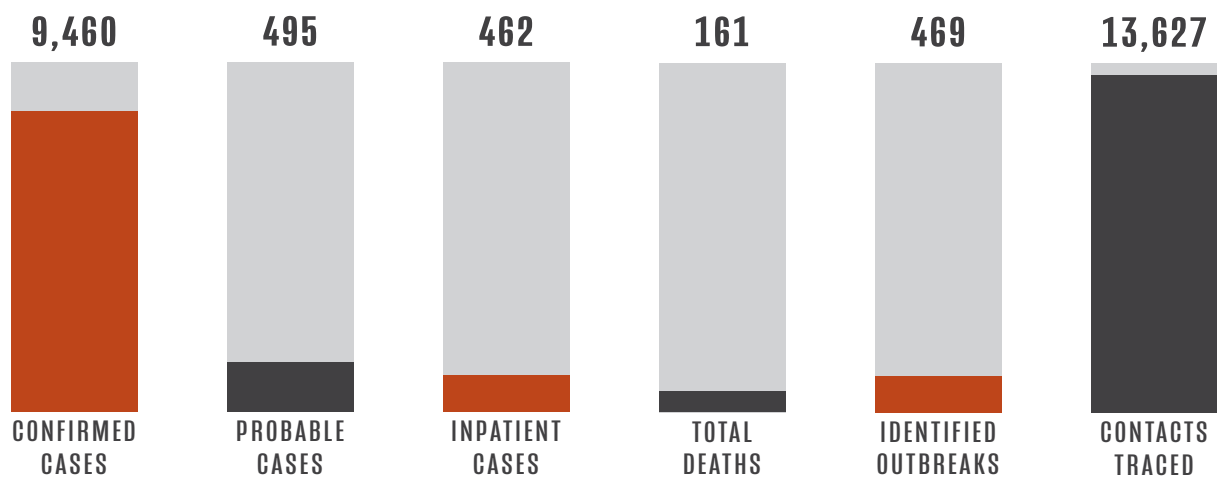
DHD#10 has always maintained a list of emergency community contacts in the event of a public health crisis. COVID-19 presented the opportunity to communicate to this important list through a new tool called GovDelivery. With this tool, DHD#10 sent a daily COVID-19 update to over 900 community stakeholders within our ten-county jurisdiction providing local, state, national, and global data and guidance. Through GovDelivery, we also added subscribers and launched a Public Health Alert, which was regularly sent to over 17,000 subscribers. Our presence on social media increased significantly, as did our followers, increasing by 386%. In 2019, DHD#10 had 1,514 followers, and in 2020, we increased to 7,354 followers. Our communication team also sent 142 COVID-19 related press releases to the media. Our website was also a source of information via a Coronavirus page and a Data Dashboard.



UPDATED TECHNOLOGY

Technology was instrumental not only in having advanced tools to map out the impact of COVID-19 among our communities, but also to adjust and adapt to a new remote workforce. DHD#10 launched FetchPH, a GIS mapping system that allowed us to visually see COVID-19 cases across our entire ten-county jurisdiction. From month to month, we could see where there were hotspots and where cases were decreasing. When it came to transitioning to a remote work environment, our Information Technology team worked tirelessly to see to it that our staff of over 200 had everything they needed to perform their jobs virtually. From purchasing laptops, to setting up Microsoft Teams for virtual meetings, to dealing with numerous helpdesk tickets, our IT department saw to it that staff was prepared for this new world.

March - December 2020



INVESTIGATED CASES

Investigation of positive COVID-19 cases and their close contacts was an enormous responsibility that fell to our DHD#10 staff, primarily our public health nurses. Throughout 2020, DHD#10 re-assigned and added contractual staff, and worked with assistance from MDHHS's COVID-19 surge capacity, to provide timely case investigation and contact tracing. An important aspect was getting staff trained to appropriately manage the huge influx of cases on a daily basis. DHD#10 held trainings remotely and recorded each one so that the re-assigned or new staff could quickly get up to speed for effective pandemic response.



MANAGED OUTBREAKS

In late spring and early summer of 2020, DHD#10 staff dealt with farm and large facility outbreaks in Oceana, Newaygo, and Mason Counties. Many of the outbreaks involved seasonal workers, and a team effort was needed to address the unique challenges of group living situations, language barriers, and connecting workers to the appropriate resources. DHD#10 worked with MDHHS, MDARD, and local community partners in the effort to support workers and employers in fighting COVID-19. Due to community interest in these efforts, DHD#10 held a virtual press conference and a town hall to answer questions and share information on the outbreaks and COVID-19 in general. On the plus side, our public health nurses and environmental health staff became well-acquainted with the human resource departments of businesses and farms.



RECOGNIZED HEALTH DISPARITIES

Seasonal migrant workers play an imperative role in the success of businesses and vitality of communities in many of our counties from March through October. Minority populations were unequally affected by, and experienced increased risk of COVID-19 on a national, state, and local level. As of 2019, 4.7% of the population of our jurisdiction reported Hispanic Ethnicity. In June 2019, the percentage of total COVID-19 cases in our counties reporting Hispanic or Latino ethnicity peaked at 44.9%. This percentage declined in each of the following months, partially thanks to the priority given to COVID-19 testing, educational efforts, and partnerships with local agencies, businesses, and the state, for this population.

DHD#10 Staff Perspectives

Robin Walicki, Clinical Supervisor

2020 was a year of many challenges that all centered around the COVID pandemic. One aspect of this greatly affected our school systems. Due to the quantity of schools in our jurisdiction we found it important to develop a contact list for schools throughout 10 counties along with schools in neighboring counties that we found our resident children attended. We made this information available to our contact tracing team so when a COVID-positive student was identified, they could notify the school within the 24 hour requirement. The agency also set up weekly calls where Dr. Morse updated school administration on the present community situation, MDHHS requirements and addressed school concerns.

Jeannine Taylor, Public Information Officer

COVID-19 presented a unique opportunity for us to build our following on social media and to have some open dialogue with the community. People were hungry for information and the communications team at DHD#10 did our best to post on a daily basis. From posting our daily numbers, to press releases we sent to media, to guidance from the CDC and MDHHS, our team made sure we kept the information flowing. These posts almost always generated numerous questions, and we made it a point to provide answers, clarifications, and links to additional information.

Bret Haner, Emergency Preparedness Coordinator

In terms of our Emergency Preparedness efforts related to COVID-19, DHD#10 utilized a variation of the standard Incident Command System (ICS). We called our new system the Public Health Incident Command System (PHICS). PHICS focused more on "functional areas" rather than the standard ICS components like planning, logistics, and operations. Functional areas gave staff a better understanding of their role and responsibilities. If someone was part of the staffing team, they managed staffing clinics. If they were part of the communication team, they managed agency communication. If they were part of the scheduling team, they managed client appointments. There were many staff involved with these various functional areas, so PHICS was definitely a team effort.

Katy Bies, Adolescent Health Manager

2020 was a year like none other for the Adolescent Health Division. The adolescent health clinic became a COVID-19 education resource for the schools. The number of students that utilized the clinic for medical services decreased due to COVID-19 school closings and the school's COVID-19 symptom screening (which kept kids with illness symptoms from coming to school). The MHSAA did not require athletes to have a sports physical before if playing sports in the 2020-2021 school year, that decreased the number of students coming into the clinics for well-child exams. The mental health needs of the adolescents seeking services at the adolescent health clinics shifted. The pandemic caused an increase in stress, worry, helplessness, and social and risky behavioral problems among children and adolescents (e.g., substance abuse, suicidal ideation, relationship problems, and academic issues). The therapists began offering telehealth mental health visits in efforts to not disrupt care for students during school-shut down or when students were home due to quarantine.

Michael Kramer, Environmental Health Manager

The COVID-19 pandemic presented many challenges to the Environmental Health Division. Particularly, the Food and Well/Septic programs were impacted the greatest. Many of our food establishments closed their doors or still remain closed. We faced many challenges with food establishments, especially the enforcement piece of the mask mandates/social distancing guidance from MDHHS. The volume of work was unprecedented with the staff devoted to completing those tasks. This was one of the busiest spring seasons the division has experienced as total EH activities were up close to 1/3 from this time last year and permits were up close to 70%. Thus, managing that workload proved to be a challenge and required us to adjust our staffing levels. Our food sanitarians continue to do outstanding work as they assist our restaurant owners in bringing them back into business.

Sarah Green, Community Health Worker

2020 was a crazy year for Community Health Workers. I spent a great deal of time running food boxes and medications to clients. I spent a great deal of time helping people with unemployment claims and issues. I was very grateful for Walmart pick-up services so that we could pick up groceries for clients and deliver them via porch drops. This really put our quarantined clients' minds at ease that they wouldn't have to worry about food. Utility assistance was also one of our big issue for clients, especially those who didn't get their unemployment checks right away. Connecting clients with resources and agencies is what we do on a regular basis, but during COVID it was especially important. Very glad that we have a great team at DHD#10 and all pushed through to the end.

Anne Bianchi, WIC Program Director

With help of IT, all 30+ WIC staff pivoted quickly to remote service delivery. Throughout this pandemic, staff has demonstrated resourcefulness, flexibility, and great teamwork to ensure clients receive critical food, breastfeeding support, and referrals they need. Same day or "on-the-spot" phone appointments emerged as a best practice allowing for excellent customer service and a participation/return rate of 98%. Despite pandemic-related restrictions, our staff found new and innovative ways to reach out to our communities. Some examples include: A "Drive-Through" Farm Worker Appreciation Day in Grant in July where over 300 school age children and their families received school supplies, clothing, shoes, dental and athletic supplies; Mecosta-Osceola County Breastfeeding Coalition Virtual Baby Shower in September where 70+ women and families participated, received needed baby items via curb-side pick-up, and engaged in weekly you tube segments; and our Childhood Lead Poisoning Prevention program that successfully completed Year 2 of the State Innovation grant, distributing 50 additional lead-safe cleaning kits and implementation of elevated blood lead education packets to families.

Kate Gilley, Community Health Worker

The Community Connections Program works to connect individuals to resources within our communities to overcome social determinants of health. 2020 put our skills to the test when COVID hit and turned up the volume. Many people found themselves needing assistance for the first time in their lives. For others, COVID was just another kick while they were down. Fortunately, many new resource programs were created, and more resources were available. As Community Health Workers, it was our job to find these resources and help clients to access them. There was an increased need for food and housing. We created emergency food boxes to be stored in each county for immediate needs. We worked with food banks, pantries and school programs, often delivering food for families in quarantine or unable to get to distribution sites. We assisted with applications for unemployment benefits and stimulus payments. And helped many to navigate through the state's (sometimes complicated) process to receive Medicaid, the Food Assistance Program or State Emergency Relief. It has been a year of great need, but also great reward as so many communities have come together to support one another.

Lisa Burmeister, Healthy Families America Coordinator

2020 was an interesting, challenging and creative year for home visiting. When we first met the challenge in March 2020, the home visitors began texting families often, making phone calls and offering Microsoft Teams video visits. Healthy Families America staff began making deliveries to families with activities for families to do with their children. Referrals to community resources were done so families could gather diapers, wipes and formula if needed. Staff became very creative in how they engaged families for supportive visits. Throughout the rest of the year, staff continued to provide emotional support to families through problem solving and discussing stress management techniques. Staff did all of this by working from home and educating themselves, their own families and the families they served about the effects of COVID 19 and how best to protect themselves and their loved ones. Home visiting staff became part of the broader DHD#10 team to protect the communities they serve.



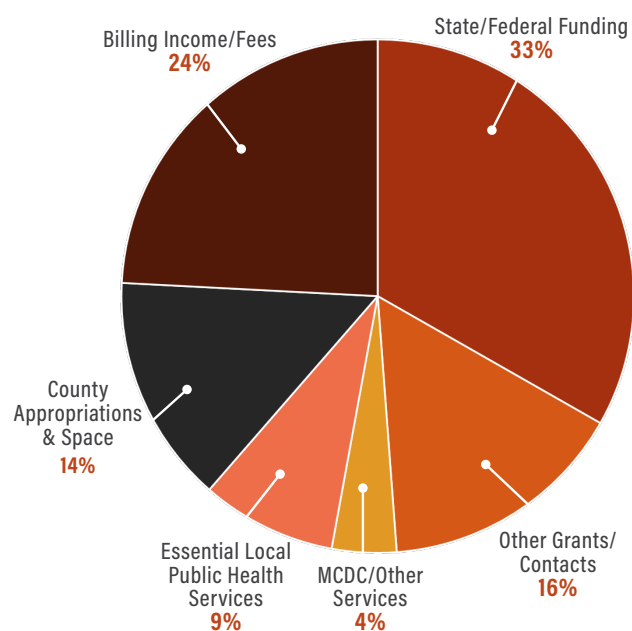
***District Health
Department #10***
Healthy People, Healthy Communities

DIVISION HIGHLIGHTS

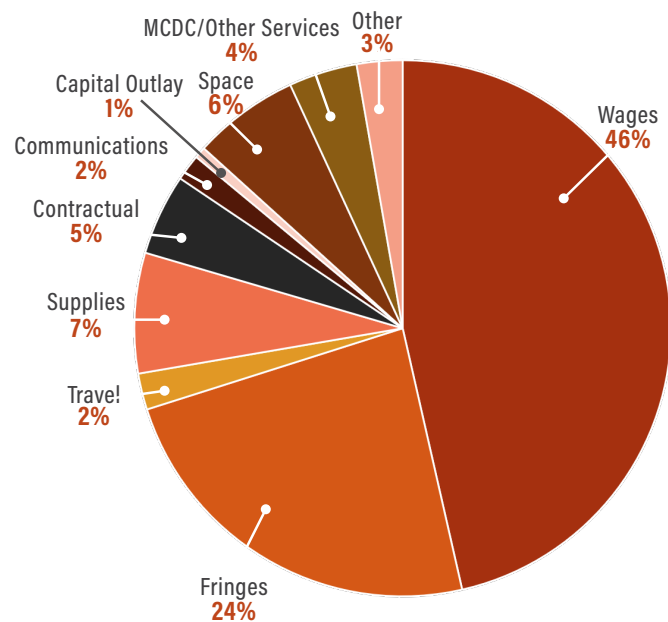


Administrative Services Snapshot

REVENUE



EXPENDITURES



In 2020 we also...

Administrative

Launched Patagonia Electronic Health Records program on October 1, 2020

Information Technology

Transitioned to remote work
– IT issued new laptops, set up staff to connect to clients remotely

Human Resources

On-boarded new staff with remote new hire process; new legislation – FFRCA, EPSLA, EFMLA; revised Work From Home Policy; issued Return to Work Plan

Community Health Services Snapshot



COMMUNITY PROGRAMS

1,232 Adults and youth impacted by direct nutrition education (SNAP-Ed)

825 Employees at **5** Worksites benefited from Worksite Wellness Program

422 Enrolled in Prescription for Health Nutrition Education Program

340 People screened for Heart Age through LiveWell for Your Heart Program

600 Grayling Elementary students benefited from CATCH Program integrating nutrition and physical activity into their school day

189 Referrals for Tobacco Treatment Services

22 Participants in Diabetes Prevention

136 Pounds lost

1,153 Impacted by Food Navigator Program at Farmer's Markets on using SNAP benefits, improving accessibility, and removing barriers to food assistance programs

1,224 Referrals to Community Connections HUB

462 People accepted HUB navigation services with 788 navigation pathways opened



YOUTH PROGRAMS

9 Adolescent Health/Wellness Centers to serve youth primary care and mental health

Viking Adolescent Health Center - Crawford

Bretheren Adolescent Wellness Center - Manistee

Chippewa Hills Wellness Center - Mecosta

Lake City Adolescent Wellness Center - Missaukee

Hart Adolescent Wellness Center - Oceana

Shelby Adolescent Health Center - Oceana

Wexford Adolescent Health Center - Wexford

Manton Adolescent Wellness Center - Wexford

Mesick Adolescent Wellness Center - Wexford

1,149 Primary Care Visits at Adolescent Health/Wellness Centers

3,368 Mental Health Visits at Adolescent Health/Wellness Centers

941 Oral health screenings in Oceana County schools

11,487 Toothbrush kits distributed to schools and food pantries in Oceana, Mason, and Manistee Counties



SUBSTANCE USE EDUCATION

SUBSTANCE ABUSE PREVENTION SERVICES:

Lake, Mason, Missaukee, Oceana, Wexford

5,959 Adults reached through Community Education

1,470 Students reached through School Programs

2,205 Persons reached at Medication Disposal Events

279 Pounds of medication collected during events

MEDICAL MARIJUANA OUTREACH AND EDUCATION:

Lake, Mason, Mecosta, Missaukee, Oceana, Wexford

1,346,357 Reached through various media efforts to educate adults on medical marijuana safety

In 2020 we also...

Secured MDHHS funding to pursue and plan for a new Mobile Clinic Unit

Planned and implemented Nalox Boxes project and Sharps Takeback project

Launched a Mail-Order Free Condom distribution project and marketing campaign

Environmental Health Services Snapshot



**ENVIRONMENTAL
HEALTH**

1,819 Septic Permits Issued

1,803 Well Permits Issued

187 Well Inspections

1,437 Food Operation Inspections

170 Temporary Food Booth Inspections

152 Childcare Inspections

237 Campground Inspections

148 Swimming Pool Inspections

126 Soil Evaluations

394 Radon Kits Distributed

In 2020 we also...

Had a busy year for sanitary permits due to:

- Unexpected increase in septic and well permits – 26% increase for septics and 6% for wells
- Super low interest rates for home mortgages – 2.5 to 3%
- Increase in failed septic systems

Had an increase in algae blooms in many of our lakes and rivers

- This is part of an ongoing trend likely the result of climate change
- Normally, the algae blooms end in September, but we had blooms occurring in November in 2020
- Increased use of summer homes may be a contributing factor to the increase

Had an increase in tattoo businesses in our district

- Normally only one tattoo shop opens per year - in 2020, five new shops opened
- Existing tattoo shops struggled to keep up with business
- The lockdown may have increased the desire to get a tattoo

Family Health Services Snapshot



FAMILY HEALTH CLINICAL

11,469 Vaccines Given

5,649 Influenza Vaccines Given

1,201 Family Planning Clients Served

2,233 Services Provided

1,361 Children Served with Children's Special Health Care Services

178 Services Provided

310 Breast & Cervical Screenings

38 Colorectal Screenings

1,183 Preschool Hearing Screenings

4,080 School Hearing Screenings

1,696 Preschool Vision Screenings

6,801 School Vision Screenings



FAMILY HEALTH HOME VISITING

142 Clients Served through Maternal Infant Health Program (MIHP)

2,452 Maternal Visits

384 Infant Clients

6,084 Infant Visits

14 Healthy Futures Home Visits

14 Healthy Futures Phone Visits

72 Healthy Families Clients Served

1,358 Healthy Families Home Visits



FAMILY HEALTH WIC

7,731 Average Monthly Enrollment

4,530 Project Fresh Distributed

\$113,250 Value of Project FRESH Coupons

1,145 Child Lead Screenings

1,224 Fluoride & Oral Dental Screenings

1,659 Breastfeeding Peer Counseling Services

In 2020 we also...

Continued Clinical services "curbside" during the lockdown for:

- Family Planning
- Breast and Cervical Cancer Screening
- Sexually Transmitted Infection services
- Communicable Disease-animals/heads/TB testing
- Hepatitis A clinics and Flu clinics during COVID testing events

Continued Home Visiting services through other means like:

- Staying connected to our clients through phone calls, video conference calls, and visits outside or in the parking lot
- Dropping off food, diapers, books, and activity bags to support family needs
- Assisting each other, like when our Hearing & Vision staff reached out to all CSHCS caseload to touch base

Continued WIC services and food benefits creatively:

- Saw 2.6% increase in client caseload
- Developed new "remote" best practices, like "on-the-spot" and "cold-call" appointments
- Reinvented Farmer's Market Nutrition Education and Project FRESH program through mailings, curbside deliveries, and self-directed materials
- Improved breastfeeding initiation by 77% and reduced child hemoglobin levels by more than 5%



2020 PUBLIC HEALTH DATA



2020 Public Health Data

The following is an in-depth view of the health of residents within the jurisdiction of District Health Department #10. This information also highlights data related to the programming and services provided to residents in our communities. These data sets are used to tell the story of each county's health status. DHD#10 continuously collects and analyzes data to identify the burden of disease and examine the overall health of the 10 county population. DHD#10 uses this data to ensure that programs and services are meeting the needs of clients and the communities served.

LEADING CAUSES OF DEATH

	DHD#10 Number of Deaths	DHD#10 Death Rate per 100,000	Michigan Death Rate per 100,000
Heart Disease	664	172	194.9
Cancer	693	171.6	161.1
Accidents	169	54.6	52.1
Chronic Lower Respiratory	223	54.2	44.2
Stroke	173	44.1	39.9
Alzheimer's Disease	152	39.8	34.3
Diabetes Mellitus	84	21.2	21.9
Kidney Disease	45	11	15
Pneumonia/Influenza	53	13.3	14.3
Suicide	48	18.3	15

MDHHS, 2018 <https://www.mdch.state.mi.us/osr/chi/profiles/frame.html>

COMMUNITY HEALTH INDICATORS

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Michigan
Total Population 2019*	13,905	17,806	11,876	24,455	29,084	43,400	15,101	48,839	26,555	33,446	9,984,072
# of Births 2019*	110	182	102	195	274	410	150	528	255	390	107,917
Birth Rate per 1,000 2019*	55.6	61.4	69.2	59.4	61.2	46.7	62.5	65.9	60.9	69.4	57.4
# of Deaths 2018*	192	219	197	320	368	408	171	503	260	365	98,985
AA Death Rate per 100,000 2018*	790.6 +/- 118.6	978.8 +/- 136.2	962.2 +/- 149.0	758.7 +/- 88.8	806.0 +/- 87.3	752.5 +/- 75.2	780.6 +/- 119.7	762.3 +/- 68.3	704.2 +/- 89.0	802.6 +/- 84.9	783.1 +/- 5.0
Cancer Mortality Age Adjusted Rate per 100,000 2018*	165.5	212.3	222.8	183.3	170.5	162.9	172.9	150	146.4	173.1	161.1
Cardiovascular Disease Mortality Age Adjusted Rate per 100,000 2018*	189.4	234.7	211.2	140.2	174.5	188.5	178	161.2	191.8	130.7	194.9
Median Household Income 2019^	\$49,114	\$47,620	\$38,044	\$50,047	49,869	\$47,705	\$51,317	\$51,772	\$52,319	\$53,146	\$59,522
Persons Below Poverty 2019^	14.0%	13.9%	20.2%	12.3%	13.9%	19.9%	10.9%	15.7%	14.8%	12.4%	12.9%
Medicaid Paid Births 2019^	48.2%	47.8%	61.8%	49.2%	42.3%	46.6%	48.0%	48.7%	60.4%	55.1%	41.5%
Teen Pregnancy Rate per 1,000 2019*	*	38.5	57.1	37.0	24.1	13.4	56.6	30.7	35.2	30.0	25.8
Smoked While Pregnant 2018^	37.4%	31.7%	35.6%	32.6%	17.6%	25.4%	21.1%	26.0%	22.2%	25.3%	15.2%

*=MDHHS, 2019; ^=MLFPP

COMMUNICABLE DISEASE REPORTING

DISEASE	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
Chlamydia	24	39	25	29	66	151	36	101	66	80	617
Hepatitis C Chronic	4	12	3	8	11	4	3	16	4	21	86
Campylobacter	1	3	1	2	5	5	2	11	3	2	35
Chickenpox	1	0	0	0	0	3	0	0	0	1	5
Salmonellosis	1	1	1	8	3	4	2	6	6	3	35
Gonorrhea	4	3	7	5	11	32	9	26	10	20	127
Streptococcal	2	3	1	1	4	6	2	6	3	2	30
Shiga Toxin E coli	0	0	0	0	0	3	0	1	0	1	5
Giardia	0	0	0	1	5	2	1	0	2	0	11
Pertussis	0	0	0	1	0	0	0	0	1	7	9
Novel Coronavirus COVID-19	194	81	57	82	164	240	59	459	688	137	2161

Michigan Disease Surveillance System (MDSS), 2019

COMMUNICABLE DISEASE TRENDING DATA

Chlamydia continues to be our most reported communicable disease. Likewise, it is the most common disease reported in our state. In previous years, our number of cases remained in the 700-800 range. During fiscal year 2019-2020, cases decreased to 617. This decline in cases occurred in both our jurisdiction and the state of Michigan.

Gonorrhea cases have been increasing each year for the past seven years. The 5-year average trend is an increase of 23% per year.

Chronic Hepatitis C will continue to be a major health problem, although cases decreased by over 50% this fiscal year. Our reported cases have shown a 5-year average decreasing trend of 14% per year. This is likely due to changes in diagnostic criteria and more accurate diagnoses, which utilize RNA testing for virus confirmation.

Salmonella continues to be one of our primary food borne illnesses, we had one small seven-person outbreak in our jurisdiction in August 2020 which was linked to a caterer producing various baked goods in an unlicensed home kitchen. The 5-year average trend is an increase of 12% per year.

Campylobacter is tied with salmonella as our most reported bacterial gastrointestinal disease this fiscal year. CDC estimates that it affects at least 1.5 million people a year in the US. The 5-year average trend for this disease is a decrease of 6% per year.

Pertussis cases vary widely year-to-year due to periodic outbreaks, mainly in groups of unimmunized persons. Vaccination is the most effective means to prevent this disease and varicella (chicken pox) disease as well.

Shiga Toxin E coli cases fortunately remained low this fiscal year. However, those that occur can be severe, especially in children.

Hepatitis A incidence decreased during this fiscal year and continues to remain low following the widespread state outbreak in 2016.

Lyme Disease is endemic in the counties along the Lake Michigan shoreline. The average trend of our cases over the past five years shows an increase of 11% per year. Cases this fiscal year were primarily in two of our coastal counties of Manistee and Mason.

Additional comments:

Novel coronavirus COVID-19 was introduced during the latter part of this fiscal year with the first case in our jurisdiction reported on March 14th, 2020. It is important to acknowledge that many of the preventative measures taken to decrease the spread of COVID-19 could have impacted other communicable disease case reporting thus impacting their trends as well.

Even though some diseases (such as TB and Meningococcal Meningitis) occur quite rarely, and do not appear on this list, they can create a large amount of work for our staff given the right circumstances. Therefore, the large numbers of certain diseases (e.g., Chlamydia; Chronic Hepatitis C) do not always properly tell the story of how much effort is required to investigate some of these diseases.

DISEASE	2019-2020	2018-2019	2017-2018	2016-2017
Chlamydia	617	740	725	716
Hepatitis C (chronic)	86	176	271	222
Campylobacter	35	44	56	50
Chicken Pox	5	8	12	11
Salmonellosis	35	32	34	22
Gonorrhea	127	92	73	65
Streptococcal Diseases	30	56	56	42
Shiga Toxin E coli	5	5	12	8
Giardia	11	12	19	15
Pertussis	9	8	23	9
Hepatitis A	1	8	4	4
Lyme Disease	13	28	15	12

ACCESS TO DHD#10 HEALTH SERVICES

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
Maternal Infant Health Program (MIHP)											
Maternal Clients	18	11	10	13	9	12	10	31	6	22	142
Maternal Visits	253	148	89	131	182	267	235	556	216	375	2,452
Infant Clients	27	25	20	29	32	59	40	63	48	61	384
Infant Visits	382	303	247	443	440	693	504	1,152	629	1,291	6,084
Healthy Futures											
Home Visits	0	0	0	0	0	0	11	0	0	3	14
Phone Visits	0	0	0	0	0	0	11	0	0	3	14
Healthy Families											
Clients Served	16	14	10	11	N/A	N/A	7	N/A	N/A	14	72
Home Visits	359	239	213	209	N/A	N/A	81	N/A	N/A	257	1,358
Children's Special Health Care Service											
Children Served	51	76	48	79	143	272	79	332	106	175	1,361
Services Provided	4	2	1	8	14	36	20	52	22	24	178
Women, Infants, and Children (WIC)											
Average Monthly Enrollment	431	476	274	504	695	1,115	337	1,761	907	1,231	7,731
% Return Rate	98%	99%	99%	97%	98%	98%	95%	98%	99%	97%	98.50%
PROJECT FRESH Distributed	230	280	180	300	490	500	230	1,030	540	750	4,530
Value of PROJECT FRESH coupons											\$113,250
Child Lead Screenings	82	94	36	51	79	172	51	271	104	205	1,145
Dental Services (Fluoride & Oral Screenings)	100	18	48	125	55	212	52	331	157	126	1,224
Breastfeeding Peer Counselor Services	99	93	66	126	171	274	72	393	143	222	1,659
Family Planning Services											
Clients Served	56	45	21	99	189	124	82	106	166	313	1,201
Services Provided	125	66	29	188	358	193	172	205	355	542	2,233
Cancer Screening Programs											
Breast & Cervical Clients	15	10	5	30	52	41	23	34	51	49	310
Cancers Found	1			1	1				2	1	6
Colorectal Clients	2	1	2	1	8	5	0	9	8	2	38
Referred for Colonoscopy	2	0	1	1	2	2	0	9	3	2	22
Dental Health - services provided in partnership with My Community Dental Clinics (MCDC) and Dental Health Centers (DHC)											
Unique Patients	674	1,122	359	2,120	1,500	2,340	1,178	731	1,656	2,268	13,948
Patient Visits	1,379	2,358	703	4,197	3,052	4,752	1,341	1,479	3,468	3,973	26,702
Community Connections HUB											
Referrals	67	84	22	254	74	178	93	64	71	316	1,223
Assistance Pathways	68	49	0	160	17	183	15	18	51	226	787

ESSENTIAL LOCAL PUBLIC HEALTH SERVICES

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
Onsite Sewage											
Septic Permits	125	173	180	191	157	211	77	333	240	132	1,819
Septic Failures	33	52	46	28	61	59	5	142	99	35	560
Water Program											
Well Permits	85	163	131	167	165	260	133	357	197	145	1,803
Well Inspections	3	10	44	25	14	28	6	13	23	21	187
Food Service											
Food Operation Inspections	69	75	52	190	191	212	47	226	144	231	1,437
Temp Food Booth Inspections	8	5	8	53	12	12	9	9	24	30	170
Reported Food Borne Illness	1	0	0	0	3	2	0	1	1	2	10
Immunizations											
Vaccines Given	802	902	234	1,053	1,701	1,677	782	1,144	1,465	1,709	11,469
Influenza Vaccines Given	288	523	148	494	812	805	454	617	673	835	5,649
Communicable Disease											
TB Patients on Prophylaxis	0	0	0	1	2	2	1	1	1	5	13
STI Services											
STI Clients	7	4	2	15	13	30	4	7	9	27	118
STI Clinic Services	11	4	2	17	17	37	7	14	15	41	165
Hearing Screenings											
Preschool Hearing Screenings	28	110	9	26	109	220	78	116	252	235	1,183
School Hearing Screenings	0	189	99	107	654	520	302	1,315	557	337	4,080
Vision Screenings											
Preschool Vision Screenings	28	112	9	159	188	227	85	127	375	386	1,696
School Vision Screenings	128	214	133	842	1,710	581	393	1,415	1,108	277	6,801

PUBLIC HEALTH PROGRAM SNAPSHOTS

ENVIRONMENTAL HEALTH SERVICES

	Crawford	Kalkaska	Lake	Manistee	Mason	Mecosta	Missaukee	Newaygo	Oceana	Wexford	Total
Radon Kits Distributed	24	38	10	36	28	48	34	56	38	82	394
Soil Evaluations	0	9	3	13	10	24	1	37	17	12	126
Mortgage Evaluations	3	5	10	1	14	28	2	194	20	5	282
Building Permit Approvals	1	11	55	12	28	43	0	43	53	3	249
Complaints (all)	3	6	18	14	27	30	3	41	24	12	178
Child Care Inspections	3	14	5	15	14	22	17	28	15	19	152
Campground Inspections	31	11	24	24	23	30	13	26	32	23	237
Swimming Pool Inspections	4	5	4	19	45	9	2	6	30	24	148
Type II Sanitary Surveys	20	8	10	30	23	24	13	37	36	17	218
Tanning Inspections	0	0	0	0	4	9	2	7	3	3	28
Animal Bites/Exposures	4	4	1	2	2	10	1	15	14	6	59

WOMEN, INFANTS, AND CHILDREN (WIC) SERVICES

	2018	2019	2020
Average Monthly Enrollment	7,920	7,638	7,731
% Return Rate	95.6%	95.8%	98.5%
# of Project Fresh Books Distributed	4,525	4,555	4,530
Value of Project Fresh Coupons	\$113,125	\$113,875	\$113,250
Child Lead Screening	1,148	1,976	1,145
Children who Received Fluoride Varnish	2,896	2,915	1,224

COMMUNITY HEALTH SERVICES

Community Programs	
Adults and Youth Impacted by Direct Nutrition Education	1,232
Number Reached by Improving Healthy Food Access through Policy, Systems, and Environmental Changes	1,153
Tobacco Treatment Program (TTP)	
Referrals	189
Clients Enrolled	37
Michigan Tobacco Quitline Referrals	133
National Diabetes Prevention Program (DPP) Participants	22
Total Pounds Lost on DPP	136
LiveWell for Your Health Heart Age Screened	340
Catch Grant Grayling Elementary Students	600
Employees Impacted by Wellness Efforts	825
Prescription for Health Participants	422
Adolescent Health Centers	
<i>Lake City Wellness Center, Missaukee; Manton & Mesick Adolescent Wellness Centers, Wexford; Shelby Adolescent Health Center, Oceana; Viking Wellness Center, Crawford; Brethren Wellness Center, Manistee; Chippewa Hills Wellness Center, Mecosta; Hart Adolescent Wellness Center, Oceana</i>	
Medical Services	1,149
Behavioral Health Services	3,368
Oral Health	
Oral Health Screenings, Oceana County Schools	941
Community Connections HUB	
Referrals	1,223
Assistance Pathways	787
Substance Abuse Prevention Services	
<i>(Mason, Lake, Oceana, Missaukee, Wexford Counties)</i>	
Community Education—Adults Reached:	5,959
School Programs—Students Reached:	1,470
Youth Summit Attendees:	NA
Active Community Coalitions: (Meet Average 10 Times/Year)	4
Medication Disposal Efforts—Total Reached:	2,205
Medical Marijuana Education—Total Reached through Outdoor Media	1,346,357

FAMILY HEALTH SERVICES

Immunizations	
Vaccines Administered	11,469
Influenza Vaccines Administered	5,649
Home Visiting Programs	
Maternal Infant Health Program (MIHP), Healthy Futures, Healthy Families America	
MIHP Maternal Clients	142
MIHP Maternal Visits	2,452
MIHP Infant Clients	384
MIHP Infant Visits	6,084
Healthy Futures Clients	398
Healthy Futures Phone Calls	425
Healthy Futures Home Visits	112
Healthy Families America Clients	72
Healthy Families America Visits	1,358
Hearing and Vision	
Preschool Hearing Screenings	790
School Hearing Screenings	4,231
Preschool Vision Screenings	831
School Vision Screenings	6,441
Family Health Programs	
Family Planning Program Participants	1,202
Breast and Cervical Cancer Program Screenings	310
STI Clients	118
STI Services	165

2020 Community Partners

DHD#10 recognizes all of the partnerships and support we receive from numerous outside agencies. With so much cross-jurisdictional sharing, partnerships, and support, we are able to continue offering unique programming and comprehensive public health services to our entire 10-county jurisdiction.

Arbor Circle Corporation
Baldwin Community Schools
Baldwin Family Health Care
Brock A. Johnsen DDS
Cadillac Area Public Schools
Chippewa Hills Public Schools
City of Big Rapids
City of Grant
Community Foundation of Mason County
Community Foundation of Oceana County
Crawford Ausable School District
Crawford County Community Christian Help
Delta Dental Foundation
Dental Clinics North
Family Practice of Cadillac, P.C.
Ferris State University
Fremont Area Community Foundation
Fremont Christian Church
Great Start Collaborative
Hart Lake Family Dentistry
Hart Public Schools
Hart Rotary
Heather L. Phares DDS
Kaleva Norman-Dickson Public Schools
Kiwanas Club of Kalkaska
Lake City Public Schools
Lake County Children's Trust Fund
Lake County Department of Health and Human Services
Lake County Habitat for Humanity
Lake County Juvenile Court
Lake County Michigan Works!
Lake County Sheriff Dept
Lake County Trial Court

Lake Osceola State Bank
Manistee County Community Foundation
Manton Consolidated Schools
Mason County Eastern Schools
Mesick Consolidated Schools
Michigan Health Endowment Fund
Michigan State Police
Michigan State University Extension
Munson Healthcare
My Community Dental Centers
Northern Michigan Community Health Innovation Region
Northwest Michigan Chronic Disease Prevention Coalition
Northwest Michigan Health Services Inc.
Oceana County Children's Trust
Pompeii's Pizza Shelby
Shelby Optimists Club
Shelby Public Schools
Shelby Rotary
Spectrum Health Big Rapids
Spectrum Health Gerber Hospital
Spectrum Health Ludington Hospital
St. Stephen's Council of Women
The Red Project
The Wexford-Missaukee Physician Hospital Organization
Thorton Fund
United Way of the Lakeshore - Oceana County
United Way of Manistee County
Weidman Lion's Club
West Michigan Community Mental Health
Wexford Missaukee Intermediate School District
Woods and Water RV Park

Thank You!

CRAWFORD COUNTY

501 Norway St., Ste. 1
Grayling, MI 49738
989-348-7800

KALKASKA COUNTY

625 Courthouse Dr.
Kalkaska, MI 49646
231-258-8669

LAKE COUNTY

5681 S. M-37
Baldwin, MI 49304
231-745-4663

MANISTEE COUNTY

385 Third St.
Manistee, MI 49660
231-723-3595

MASON COUNTY

916 Diana St.
Ludington, MI 49431
231-845-7381

MECOSTA COUNTY

14485 Northland Dr.
Big Rapids, MI 49307
231-592-0130

MISSAUKEE COUNTY

6180 W. Sanborn Rd. Ste. 1
Lake City, MI 49651
231-839-7167

NEWAYGO COUNTY

1049 Newell St.
White Cloud, MI 49349
231-689-7300

OCEANA COUNTY

3986 N Oceana Dr.
Hart, MI 49420
231-873-2193

WEXFORD COUNTY

521 Cobb St.
Cadillac, MI 49601
231-775-9942



***District Health
Department #10***
Healthy People, Healthy Communities



www.dhd10.org

